PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

	icant's or agent's file reference . 6360-WO	FOR FURTHER AC	FURTHER ACTION See Form PCT/IPEA/416			
International application No. PCT/IB2004/002431		International filing date (d 29.07.2004	y/month/year) Priority 01.08	date (day/month/year) .2003		
	national Patent Classification (IPC) B33/193	or national classification and IPC				
	icant L JAPAN CO. LTD. et al.					
1.	 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 					
2.	. This REPORT consists of a total of 4 sheets, including this cover sheet.					
3.	3. This report is also accompanied by ANNEXES, comprising:					
	a. sent to the applicant and to the International Bureau) a total of sheets, as follows:					
	sheets of the description, claims and/or drawings which have been amended and are the basis of this repo and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).					
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.					
	b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)), containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).					
4.	This report contains indication	ons relating to the following ite	ms:			
	⊠ Box No. I Basis of th	e opinion				
1	☐ Box No. II Priority					
	☐ Box No. III Non-estab	lishment of opinion with rega	d to novelty, inventive step and	d industrial applicability		
	☐ Box No. IV Lack of un	ity of invention				
	⊠ Box No. V Reasoned applicabili	statement under Article 35(2 ty; citations and explanations	with regard to novelty, inventi supporting such statement	ve step or industrial		
	☐ Box No. VI Certain do	cuments cited				
	☐ Box No. VII Certain de	efects in the international app	cation			
	☐ Box No. VIII Certain ob	servations on the internation	l application			
<u> </u>			Date of completion of this record			
Da	te of submission of the demand		Date of completion of this report			
20.01.2005			2 5 .10.2005			
	me and mailing address of the inte eliminary examining authority:		Authorized Officer	John Palanan, E		
-	European Patent Office D-80298 Munich		Werner, H			
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IAP5 Rac'd PCT/PTO 30 JAN 2006

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/IB2004/002431

10/566373

	Box No. I	Basis of the report			
1.	With regard to the language , this report is based on the international application in the language in which it w filed, unless otherwise indicated under this item.				
	which □ inte □ out	eport is based on translations from the original language into the following language, is the language of a translation furnished for the purposes of: ernational search (under Rules 12.3 and 23.1(b)) blication of the international application (under Rule 12.4) ernational preliminary examination (under Rules 55.2 and/or 55.3)			
2.	have been	d to the elements * of the international application, this report is based on <i>(replacement sheets which furnished to the receiving Office in response to an invitation under Article 14 are referred to in this foriginally filed" and are not annexed to this report):</i>			
	Description	n, Pages			
	1-38	as originally filed			
	Claims, Nu	mbers			
	1-11	as originally filed			
	Drawings, Sheets				
	1/5-5/5	as originally filed			
	□ a seq	uence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing			
3.	 The amendments have resulted in the cancellation of: the description, pages the claims, Nos. the drawings, sheets/figs the sequence listing (specify): any table(s) related to sequence listing (specify): 				
4.	had not be Suppleme	report has been established as if (some of) the amendments annexed to this report and listed below een made, since they have been considered to go beyond the disclosure as filed, as indicated in the ental Box (Rule 70.2(c)). e description, pages e claims, Nos. e drawings, sheets/figs e sequence listing (specify): hy table(s) related to sequence listing (specify):			
	* If i	tem 4 applies, some or all of these sheets may be marked "superseded."			

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/IB2004/002431

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

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Novelty (N)

Yes: Claims

1-11

No:

Inventive step (IS)

Yes: Claims

Claims

1-11

No: Claims

Industrial applicability (IA)

Yes: Claims

1-11

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

International application No.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

PCT/IB2004/002431

Re Item V.

The present application fulfils the requirements for patentability as set forth by Art. 33 PCT. The present application claims amorphous silica particles with a certain relation between pore volume and pore radius. The amorphous silica particles have high absorbing capacities even under high shear stress. The amorphous silica particles are used as matting agents and carrier for pharmaceuticals and agrochemicals.

The closest prior art is represented by US 2002/102198 A1. This document discloses amorphous porous silica particles having a high DBP absorption useful as carrier for pharmaceuticals and foodstuff. The relation between pore volume and pore radius is not disclosed. The method for producing the silica particles differs from the method in the present application. Absorption capacity under high shear stress is not discussed.

Further documents cited:

WO 03/055802 A discloses amorphous porous silica suitable for a dental composition. The relation between pore volume and pore radius is not disclosed. The method for producing the silica particles differs from the method in the present application.

US 5 922 298 A discloses amorphous porous silica useful as a component of microporous polymeric battery separators. The relation between pore volume and pore radius is not disclosed. The method for producing the silica particles differs from the method in the present application.

These improvements could not have been predicted and justify inventivity.